Claims

- 1. A method for identifying elite event GAT-ZM1 in biological samples, which method comprises detection of a GAT-ZM1 specific region with a specific primer or probe which specifically recognizes the 5' or 3' flanking region of GAT-ZM1.
- 2. The method of claim 1, said method comprising amplifying a DNA fragment of between 100 and 350 bp from a nucleic acid present in said biological samples using a polymerase chain reaction with at least two primers, one of which recognizes the 5' or 3' flanking region of GAT-ZM1, the other which recognizes a sequence within the foreign DNA.
- 3. The method of claim 2, wherein one of said primers recognizes a sequence within the 5' flanking region of GAT-ZM1, and said other primer recognizes a sequence within the foreign DNA.
- 4. The method of claim 3, wherein one of said primers recognizes a sequence within the 5' flanking region of SEQ ID NO: 6, and the other recognizes a sequence within the foreign DNA.
- 5. The method of claim 4, wherein said primers comprise the sequence of SEQ ID NO: 11 and SEQ ID NO: 12, respectively.
- 6. The method of claim 2, which method comprises amplifying a fragment of between 150 and 220 bp using the GAT-ZM1 identification protocol, whereby the sequence of said primers corresponds to the nucleotide sequence of SEQ ID No 11 and SEQ ID No 12 respectively.

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- 7. The method of claim 6, which method comprises amplifying a fragment of about 202 bp, using the GAT-ZM1 identification protocol.
- 8. A kit for identifying elite event GAT-ZM1 in biological samples, said kit comprising at least one PCR primer, which recognizes a sequence within the 3' or 5' border flanking region of GAT-ZM1.
- 9. The kit of Claim 8, which further comprises at least a second PCR primer which recognizes a sequence within the foreign DNA of GAT-ZM1.
- 10. The kit of claim 8, wherein said at least one PCR primer recognizes a sequence within the 5' flanking region of SEQ ID NO: 6.
- 11. The kit of claim 8, wherein said at least two PCR primers comprise the sequence of SEQ ID NO: 11 and SEQ ID NO: 12, respectively.
- 12. A primer for use in a GAT-ZM1 PCR identification protocol, having a sequence which, under optimized PCR conditions specifically recognizes a sequence within the 5' or 3' flanking region of GAT-ZM1.
- 13. The primer of claim 12, having a sequence which has at least 80% sequence identity with a sequence within SEQ ID NO: 6 or SEQ ID NO: 10.
 - 14. The primer having the sequence of SEQ ID NO: 11.
 - 15. The primer having the sequence of SEQ ID NO: 12.
- 16. The method of claim 1, which method comprising hybridizing a nucleic acid of biological samples with a specific probe for GAT-ZM1.
- 17. The method of claim 16, wherein the sequence of said specific probe has at least 80% sequence identity with a sequence comprising part of the 5'

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flanking sequence of GAT-ZM1 and the sequence of the foreign DNA contiguous therewith.

- 18. The method of claim 17, wherein the sequence of said specific probe has at least 80% sequence identity with SEQ ID NO: 6, from nucleotide 286 to 487.
- 19. A kit for identifying elite event GAT-ZM1 in biological samples, said kit comprising a specific probe, capable of hybridizing specifically to a specific region of GAT-ZM1.
- 20. The kit of claim 19, wherein the sequence of said specific probe has at least 80% sequence identity with a sequence comprising part of the 5' flanking sequence of GAT-ZM1 and the sequence of the foreign DNA contiguous therewith.
- 21. The kit of claim 20, wherein the sequence of said specific probe has at least 80% sequence identity with SEQ ID NO: 6, from nucleotide 286 to 487, or the complement thereof.
- A specific probe for the identification of elite event GAT-ZM1 in biological samples.
- 23. The probe of claim 22, which has at least 80% sequence identity with a sequence comprising part of the 5' flanking sequence of GAT-ZM1 and the sequence of the foreign DNA contiguous therewith, or the complement thereof.
- 24. The probe of claim 23 which has at least 80% sequence identity with SEQ ID NO: 6, from nucleotide 286 to 487 or the complement thereof.

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- 25. A specific probe for the identification of elite event GAT-ZM1in biological samples, the sequence of being essentially similar to SEQ ID NO: 6, from nucleotide 286 to 487 or the complement thereof.
- 26. A method for confirming seed purity, which method comprises detection of a GAT-ZM1 specific region with a specific primer or probe which specifically recognizes the 5' or 3' flanking region of GAT-ZM1, in seed samples.
- A method for screening seeds for the presence of GAT-ZM1, which method comprises detection of a GAT-ZM1 specific region with a specific primer or probe which specifically recognizes the 5' or 3' flanking region of GAT-ZM1, in samples of seed lots.

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